

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/08143

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04B39/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 583 583 A (MANGAN JOHN R) 29 January 1952 (1952-01-29) the whole document	1-15
A	US 5 118 263 A (FRITCHMAN JACK F) 2 June 1992 (1992-06-02) the whole document	1-15
A	DE 17 97 261 U (LICENTIA PATENT-VERWALTUNGS-GMBH) 8 October 1959 (1959-10-08) the whole document	1-15

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search	Date of mailing of the international search report
11 November 2003	24/11/2003
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